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PTO/SB/DBA (10-96)  
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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
Sheet	1	of	16	Application Number	10/645,954
				Filing Date	08/22/2003
				First Named Inventor	VITERI, Fermin
				Group Art Unit	3748
				Examiner Name	RICHTER, Sheldon J.
				Attorney Docket Number	3110.001

U.S. PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
✓		864,017		Miller	08-20-1907	
✓		886,274		Tate	04-28-1908	
✓		1,013,907		Taylor	01-09-1912	
✓		1,227,275		Kraus	05-22-1917	
✓		1,372,121		Davis	03-22-1921	
✓		1,820,755		McMullen	08-25-1931	
✓		1,828,784		Perrin	10-27-1931	
✓		2,004,317		Forster	06-11-1935	
✓		2,033,010		Russell	03-03-1936	
✓		2,078,956		Lysholm	05-04-1937	
✓		2,168,313		Bichowsky	08-08-1939	
✓		2,218,281		Ridder	10-15-1940	
✓		2,359,108		Hoskins	09-26-1944	
✓		2,368,827		Hanson	02-06-1945	
✓		2,374,710		Smith	05-01-1945	
✓		2,417,835		Moore	03-25-1947	
✓		2,428,136		Barr	09-30-1947	
✓		2,469,238		Newton	05-03-1949	
✓		2,476,031		Farkas	07-12-1949	
✓		2,478,682		Blackwood	08-09-1949	

FOREIGN PATENT DOCUMENTS								
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>8</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
✓		GB	6394		Smith	05-28-1898		
✓		FR	350,612		Braun	<del>01-07-1905</del>	06-20-1905	
✓		GB	140,516		Torazzi	03-23-1920		
✓		GB	271,706		Schmid	05-26-1927		
✓		DE	1,301,821		Fabian	08-28-1969		
✓		DE	2,933,932		Sternfeld	12-09-1982		
✓		DE	3,122,338		Rohatscheck	05-19-1983		
		DE	2,111,602		Stahl	<del>07-06-1983</del>		
✓		EP	0,197,555		Ramsaier	04-09-1986		
✓		DE	3,512,947		Ramsaier	10-16-1986		

Examiner Signature <i>S. Richter</i>	Date Considered <i>1-19-05</i>
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PTO/SB/08A (10-98)  
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Filing Date		08/22/2003			
First Named Inventor		VITERI, Fermin			
Group Art Unit		3748			
Examiner Name		RICHTER, Sheldon J.			
Attorney Docket Number		3110.001			
Sheet	2	of	16		

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		Number	Kind Code <sup>2</sup> (if known)			
✓		2,487,435		Goddard	11-08-1949	
✓		2,523,656		Goddard	09-26-1950	
✓		2,547,093		Ray	04-03-1951	
✓		2,563,028		Goddard	08-07-1951	
✓		2,568,787		Bosch	09-25-1951	
✓		2,582,938		Eastman	01-15-1952	
✓		2,605,610		Hermitte	08-05-1952	
✓		2,621,475		Loy	12-16-1952	
✓		2,636,345		Zoller	04-28-1953	
✓		2,654,217		Rettaliata	10-06-1953	
✓		2,656,677		Peterson	10-27-1953	
✓		2,662,373		Sherry	12-15-1953	
✓		2,678,531		Miller	05-18-1954	
✓		2,678,532		Miller	05-18-1954	
✓		2,697,482		Blizard	12-21-1954	
✓		2,717,491		Barr	09-13-1955	
✓		2,722,100		Goddard	11-01-1955	
✓		2,763,987		Kretschmer	09-25-1956	
✓		2,770,097		Walker	11-13-1956	
✓		2,832,194		Kuhner	04-29-1958	

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
SA		EP	0413199		Siemens	02-20-1991		
✓	✓	JP	WO 91/02886		Muraki	03-07-1991		
✓	✓	EP	0546501		Drnevich	06-16-1993		
✓	✓	US	WO 94/10427		Ginter	05-11-1994		
✓	✓	EP	06318464		Hiroshi	11-15-1994		
✓	✓	EP	0634562		Scharpf	01-18-1995		
✓	✓	US	WO 96/07024		Beichel	03-07-1996		
✓	✓	US	WO 97/44574		Collin	11-27-1997		
✓	✓	US	WO 99/22127		Beichel	05-06-1999		
✓	✓	US	WO 99/63210		Ursin	12-09-1999		

Examiner Signature	Date Considered <span style="font-size: 1.2em;">1-19-05</span>
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Application Number		107643,994			
Filing Date		08/22/2003			
First Named Inventor		VITERI, Fernin			
Group Art Unit		3748			
Examiner Name		RICHTER, Sheldon J.			
Attorney Docket Number		3110.001			
Sheet	3	of	16		

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		Number	Kind Code <sup>2</sup> (if known)			
SK		2,869,324		Foot	01-20-1959	
SK		2,884,912		Lewis	05-05-1959	
✓		2,916,877		Walter	12-15-1959	
✓		2,986,882		Pavlecka	06-06-1961	
✓		3,038,308		Fuller	06-12-1962	
✓		3,054,257		Schelp	09-18-1962	
✓		3,101,592		Robertson	08-27-1963	
✓		3,134,228		Wolansky	05-26-1964	
✓		3,183,864		Stengel	05-18-1965	
✓		3,238,719		Harslem	03-08-1966	
✓		3,298,176		Forsyth	01-17-1967	
✓		3,302,596		Zinn	02-07-1967	
✓		3,315,467		DeWitt	04-25-1967	
✓		3,331,671		Goodwin	07-18-1967	
✓		3,335,565		Aguet	08-15-1967	
✓		3,359,723		Bohensky	12-26-1967	
✓		3,385,381		Calaman	05-28-1968	
✓		3,423,028		Stupakis	01-21-1969	
✓		3,459,953		Hughes	08-05-1969	
✓		3,559,402		Stone	02-02-1971	

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
SK		EP	2001015134		Yasuaki	01-19-2001		
✓		EP	2001085036		Tadashi	03-30-2001		
✓		US	WO 01/75277		Demetri	10-11-2001		

Examiner Signature		Date Considered	1-19-05
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				Filing Date	08/22/2003
				First Named Inventor	VITERI, Fermin
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Sheet	5	of	16		

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		Number	Kind Code* (if known)			
SK		3,850,569		Alquist	11-26-1974	
✓		3,854,283		Stirling	12-17-1974	
✓		3,862,624		Underwood	01-28-1975	
✓		3,862,819		Wentworth	01-28-1975	
✓		3,928,961		Pfefferle	12-30-1975	
✓		3,972,180		Van Gelder	08-03-1976	
✓		3,978,661		Cheng	09-07-1976	
✓		3,980,064		Ariga	09-14-1976	
✓		3,982,878		Yamane	09-28-1976	
✓		4,063,414		Sata	12-20-1977	
✓		4,118,925		Sperry	10-10-1978	
✓		4,133,171		Earnest	01-09-1979	
✓		4,148,185		Somers	04-10-1979	
✓		4,193,259		Muenger	03-18-1980	
✓		4,194,890		McCombs	03-25-1980	
✓		4,199,327		Hempill	04-22-1980	
✓		4,224,299		Barber	09-23-1980	
✓		4,224,991		Sowa	09-30-1980	
✓		4,249,371		Romeyke	02-10-1981	
✓		4,271,664		Earnest	06-09-1981	

[illegible]

Examiner Signature	<i>S. J. Miller</i>	Date Considered	1-19-05
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**Complete if Known**

Application Number	10/645,954
Filing Date	08/22/2003
First Named Inventor	VITERI, Fermin
Group Art Unit	3748
Examiner Name	RICHTER, Sheldon J.
Attorney Docket Number	3110.001

Sheet 7 of 16

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		Number	Kind Code* (if known)			
✓		4,674,463		Duckworth	06-23-1987	
✓		4,680,927		Cheng	07-21-1987	
✓		4,716,737		Mandrin	01-05-1988	
✓		4,731,989		Furuya	03-22-1988	
✓		4,765,143		Crawford	08-23-1988	
✓		4,825,650		Hosford	05-02-1989	
✓		4,841,721		Patton	06-27-1989	
✓		4,845,940		Beer	07-11-1989	
✓		4,884,529		Byrnes	12-05-1989	
✓		4,899,537		Cheng	02-13-1990	
✓		4,910,008		Prudhon	03-20-1990	
✓		4,916,904		Ramsaier	04-17-1990	
✓		4,928,478		Maslak	05-29-1990	
✓		4,942,734		Markbreiter	07-24-1990	
✓		4,948,055		Belcher	08-14-1990	
✓		4,982,568		Kalina	01-08-1991	
✓		4,987,735		DeLong	01-29-1991	
✓		5,050,375		Dickinson	09-24-1991	
✓		5,055,030		Schirmer	10-08-1991	
✓		5,069,031		Shekleton	12-03-1991	

[illegible]

5/14/16

1-19-05

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		Number	Kind Code* (if known)			
S/R		5,088,450		Sternfeld	02-18-1992	
✓		5,103,630		Correa	04-14-1992	
✓		5,131,225		Roettger	07-21-1992	
✓		5,175,994		Fox	01-05-1993	
		5,175,995		Pak	01-05-1993	
		5,247,791		Pak	09-28-1993	
✓		5,265,410		Hisatome	11-30-1993	
✓		5,285,628		Korenberg	02-15-1994	
✓		5,304,356		Iijima	04-19-1994	
✓		5,329,758		Urbach	07-19-1994	
✓		5,353,589		Althaus	10-11-1994	
✓		5,363,642		Fruttschi	11-15-1994	
✓		5,364,611		Iijima	11-15-1994	
✓		5,413,879		Domeracki	05-09-1995	
✓		5,417,053		Uji	05-23-1995	
✓		5,449,568		Micheli	09-12-1995	
✓		RE35,061		Correa	10-17-1995	
✓		5,473,899		Viteri	12-12-1995	
✓		5,479,781		Fric	01-02-1996	
✓		5,482,791		Shingai	01-09-1996	

[illegible]

Examiner Signature	<i>S. Webster</i>	Date Considered	1-19-05
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SL		5,715,673		Beichel	02-10-1998	
✓		5,724,805		Golomb	03-10-1998	
✓		5,761,896		Dowdy	06-09-1998	
✓		5,802,840		Wolf	09-08-1998	
✓		5,852,925		Prasad	12-29-1998	
✓		5,906,806		Clark	05-25-1999	
✓		5,955,039		Dowdy	09-21-1999	
✓		5,956,937		Beichel	09-28-1999	
✓		5,968,680		Wolfe	10-19-1999	
✓		5,970,702		Beichel	10-26-1999	
✓		5,997,595		Yokohama	12-07-1999	
✓		6,170,264		Viteri	01-09-2001	
✓		6,196,000		Fassbender	03-06-2001	
✓		6,206,684		Mueggenburg	03-27-2001	
✓		6,247,316		Viteri	06-19-2001	
✓		6,260,348		Sugishita	07-17-2001	
✓		6,389,814		Viteri	05-21-2002	
✓		6,523,349		Viteri	02-25-2003	
✓		6,598,398		Viteri	07-29-2003	
✓		6,607,854		Rehg	08-19-2003	

[illegible]

Examiner Signature	<i>S. H. H.</i>	Date Considered	1-19-05
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Application Number		10/645,954			
Filing Date		08/22/2003			
First Named Inventor		VITERI, Fernin			
Group Art Unit		3748			
Examiner Name		RICHTER, Sheldon J.			
Attorney Docket Number		3110.001			

Sheet	12	of	16
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R		REINKENHOF, J. et al.; Steam Generation with Modified H2/O2 - Rocket Engines; unknown date	
✓		STERNFELD, H.; A Hydrogen/Oxygen Steam Generator for the Peak-Load Management of Steam Power Plants; unknown date	
✓		BRAUSER, S. et al.; A Proposed Hydrogen-Oxygen Power Cycle; 1967; Stillwater, Oklahoma	
✓		REESE, R. et al.; A Proposed Hydrogen-Oxygen Fueled Steam Cycle for the Propulsion of Deep Submersibles; 1971; Massachusetts	
✓		LOTKER, M.; Hydrogen for the Electric Utilities - Long Range Possibilities; 1974; Hartford, Connecticut	
✓		LUCCI, A. et al.; Title Unknown (IECEC '75 Record); 1975; Canoga Park, California	
✓		DE BIASI, V.; A Look into Real Payoffs for Combined Cycle Conversions; Gas Turbine World; 1984; pp. 17, 18, 20, 22	
✓		PAK, P. S. et al.; Closed Dual Fluid Gas Turbine Power Plant without Emission of CO2 into the Atmosphere; IFAC/IFORS/IAEE Symposium; 1989; Pergamon Press; Tokyo, Japan	
✓		YANTOVSKII, E. I.; The Thermodynamics of Fuel-Fired Power Plants without Exhaust Gases; November 1991; Geneva	
✓		YANTOVSKII, E. I.; Computer Exergonomics of Power Plants without Exhaust Gases; Energy Convers. Mgmt.; 1992; pp. 405-412; Vol. 33, No. 5-8; Pergamon Press Ltd.; Great Britain	
✓		BOLLAND, O. et al.; New Concepts for Natural Gas Fired Power Plants which Simplify the Recovery of Carbon Dioxide; Energy Convers. Mgmt.; 1992; pp. 467-475; Vol. 33, No. 5-8; Pergamon Press Ltd.; Great Britain	

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	Application Number	10/045,954		
	Filing Date	08/22/2003		
	First Named Inventor	VITERI, Fermin		
	Group Art Unit	3748		
	Examiner Name	RICHTER, Sheldon J.		
	Attorney Docket Number	3110.001		
Sheet	13	of	16	

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sh		HENDRIKS, C.A. et al.; Carbon Dioxide Recovery Using a Dual Gas Turbine IGCC Plant; Energy Convers. Mgmt.; 1992; pp. 387-396; Vol. 33, No. 5-8; Pergamon Press Ltd.; Great Britain	
✓		MERCEA, P. V. et al.; Oxygen Separation from Air by a Combined Pressure Swing Adsorption and Continuous Membrane Column Process; Journal of Membrane Science; 1994; pp. 131-144; Cincinnati, Ohio	
✓		BOLLAND, O. et al.; Comparative Evaluation of Combined Cycles and Gas Turbine Systems with Water Injection, Steam Injection, and Recuperation; Transactions of the ASME; January 1995; pp. 138-140, 142-145; Vol. 117	
✓		The NOx Report; February 20, 1995; Vol. 1, No. 1	
✓		ALKAM, M. K. et al.; Methanol and Hydrogen Oxidation Kinetics in Water at Supercritical States; 1995; The University of Iowa; Iowa City, Iowa	
✓		RICE, I. G.; Steam-Injected Gas Turbine Analysis: Steam Rates; Journal of Engineering for Gas Turbines and Power; April 1995; pp. 347-353; Vol. 117	
✓		YANTOVSKII, E. I.; A Zero Emission Combustion Power Plant for Enhanced Oil Recovery; Energy; 1995; Vol. 20, No. 8; pp. 823-828	
✓		KOLP, D. A. et al.; Advantages of Air Conditioning and Supercharging an LM6000 Gas Turbine Inlet; Journal of Engineering for Gas Turbines and Power; July 1995; Vol. 117	
✓		EPA Proposes Across-the-Board Phase II NOx Limitations; Air Pollution Regulatory Analysis Service; January 19, 1996; Article No. 96-2	

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	Filing Date	08/22/2003		
	First Named Inventor	VITERI, Fermin		
	Group Art Unit	3748		
	Examiner Name	RICHTER, Sheldon J.		
Sheet	14	of	16	Attorney Docket Number
				3110.001

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/		AGAZZANI, A. et al.; An Assessment of the Performance of Closed Cycles with and without Heat Rejection at Cryogenic Temperatures; International Gas Turbine and Aeroengine Congress & Exhibition; June 10-13, 1996; Birmingham, UK	
✓		FACCHINI, B. et al.; Semi-Closed Gas Turbine/Combined Cycle with Water Recovery and Extensive Exhaust Gas Recirculation; International Gas Turbine and Aeroengine Congress & Exhibition; June 10-13, 1996; Birmingham, UK	
✓		NAKHAMKIN, M. et al.; The Cascaded Humidified Advanced Turbine (CHAT); Journal of Engineering for Gas Turbines and Power; July 1996; pp. 565-571; Vol. 118	
✓		RICE, I. G.; Split Stream Boilers for High-Temperature/High-Pressure Topping Steam Turbine Combined Cycles; Journal of Engineering for Gas Turbines and Power; April 1997; pp. 385-394; Vol. 119	
✓		ULIZAR, I. et al.; A Semiclosed-Cycle Gas Turbine with Carbon Dioxide-Argon as Working Fluid; Journal of Engineering for Gas Turbines and Power; July 1997; pp. 612-616; Vol. 19	
✓		WILSON, D. G. et al.; The Design of High-Efficiency Turbomachinery and Gas Turbines, Second Edition; 1998; pp. 146-161; Prentice Hall; Upper Saddle River, New Jersey	
✓		BANNISTER, R. L. et al.; Development of a Hydrogen-Fueled Combustion Turbine Cycle for Power Generation; Transactions of the ASME; April 1998; pp. 276-283; Vol. 120	
✓		MATHIEU, P. et al.; Zero-Emission MATIANT Cycle; Transactions of the ASME; January 1999; pp. 116-120, Vol. 121	

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	Filing Date	08/22/2003		
	First Named Inventor	VITERI, Fermin		
	Group Art Unit	3748		
	Examiner Name	RICHTER, Sheldon J.		
	Attorney Docket Number	3110.001		
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✓		Norwegian Idea for CO <sub>2</sub> -Free Power Generation; Greenhouse Issues; March 1999	
✓		AKER MARITIME; HiOx Gas Fired Power Plants without Atmospheric Emissions; June 1999	
✓		TURKENBURG, W. C. et al.; Fossil Fuels in a Sustainable Energy Supply: The Significance of CO <sub>2</sub> Removal; A Memorandum at the Request of the Ministry of Economic Affairs the Hague; June 1999; pp. 1-26; Utrecht	
✓		BILGER, R. W.; Zero Release Combustion Technologies and the Oxygen Economy; Fifth Int'l Conference on Technologies and Combustion for a Clean Environment; July 1999; Lisbon, Portugal	
✓		BILGER, R. W.; The Future for Energy from Combustion of Fossil Fuels; Fifth Int'l Conference on Technologies and Combustion for a Clean Environment; July 1999; Lisbon, Portugal	
✓		HERZOG, H. et al.; Capturing Greenhouse Gases; Scientific American; February 2000; pp. 72-79	
✓		ANDERSON, R. E. et al.; A Unique Process for Production of Environmentally Clean Electric Power using Fossil Fuels; 8th International Symposium on Transport Phenomena and Dynamics of Rotating Machinery; March 2000; pp. 1-6; Honolulu, Hawaii	
✓		CHIESA, P. et al.; Natural Gas Fired Combined Cycles with Low CO <sub>2</sub> Emissions; Journal of Engineering for Gas Turbines and Power; July 2000; pp. 429-436; Vol. 122	
✓		HENDRIKS, C.A. et al.; Costs of Carbon Dioxide Removal by Underground Storage; 5th International Conference on Greenhouse Gas Control Technologies (GHGT-5); August 2000; Cairns, Australia	

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